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PATENT & TRADEMARK OFFICE

Title: Framework for Managing Visibility of GUI Components
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Docket No. 42841-8003.US01
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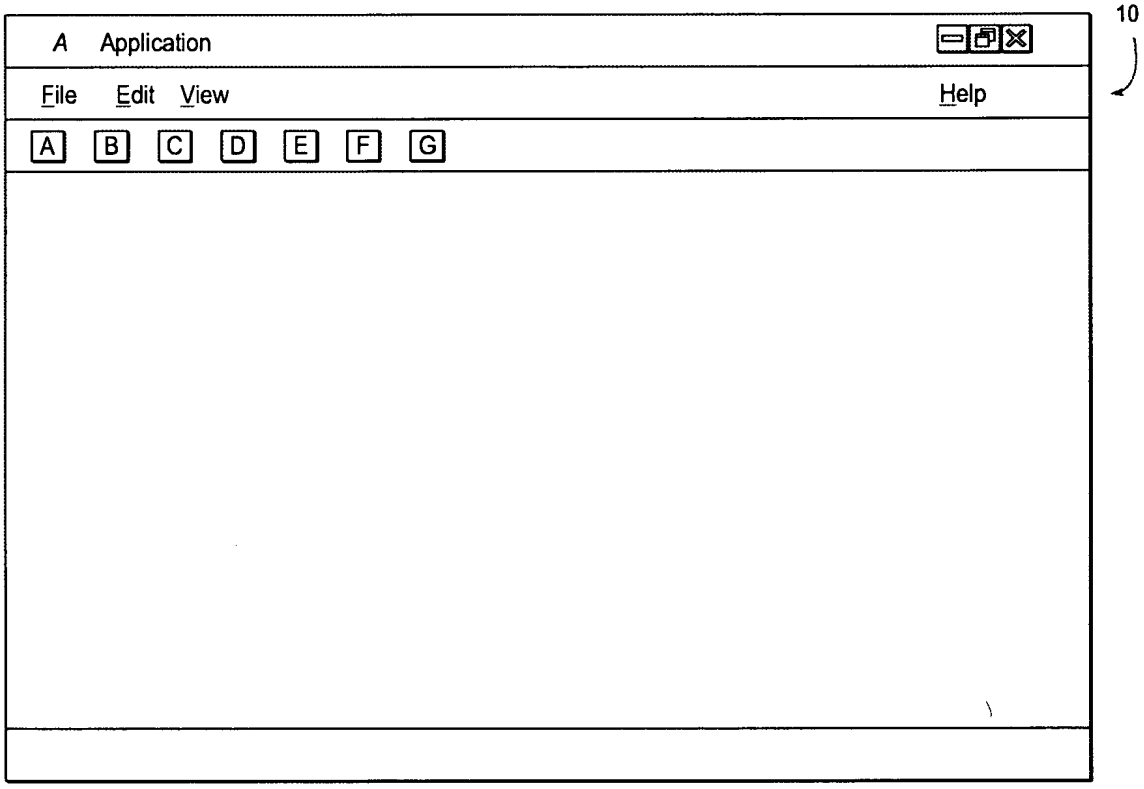

FIG. 1
(Prior Art)

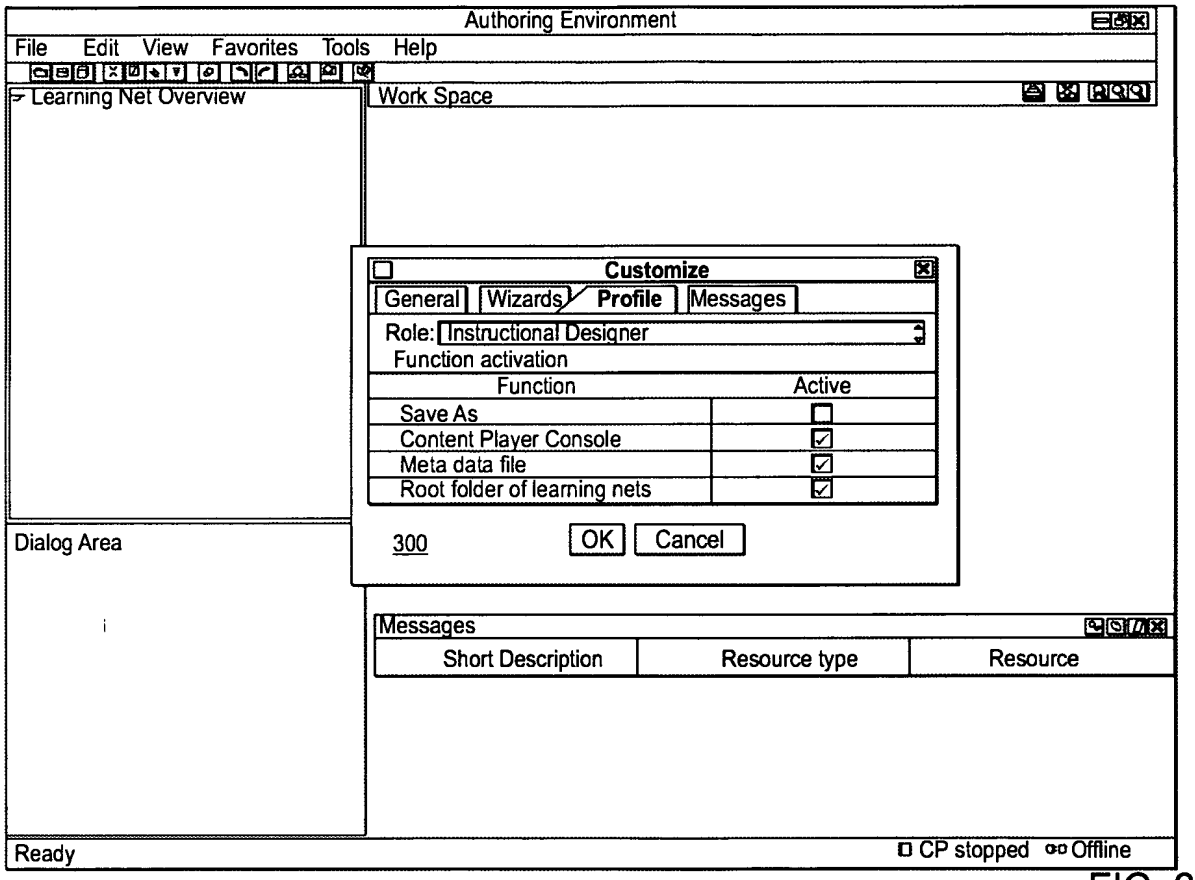
290
Authoring Environment
File Edit View Favorites Tools Help
Learning Net Overview
Work Space
Customize
General
Wizards
Profile
Messages
Role: Instructional Designer
Function activation
Function
Active
Save As
Content Player Console
Meta data file
Root folder of learning nets
300
OK
Cancel
Dialog Area
Messages
Short Description
Resource type
Resource
Ready
CP stopped
Offline

FIG. 2

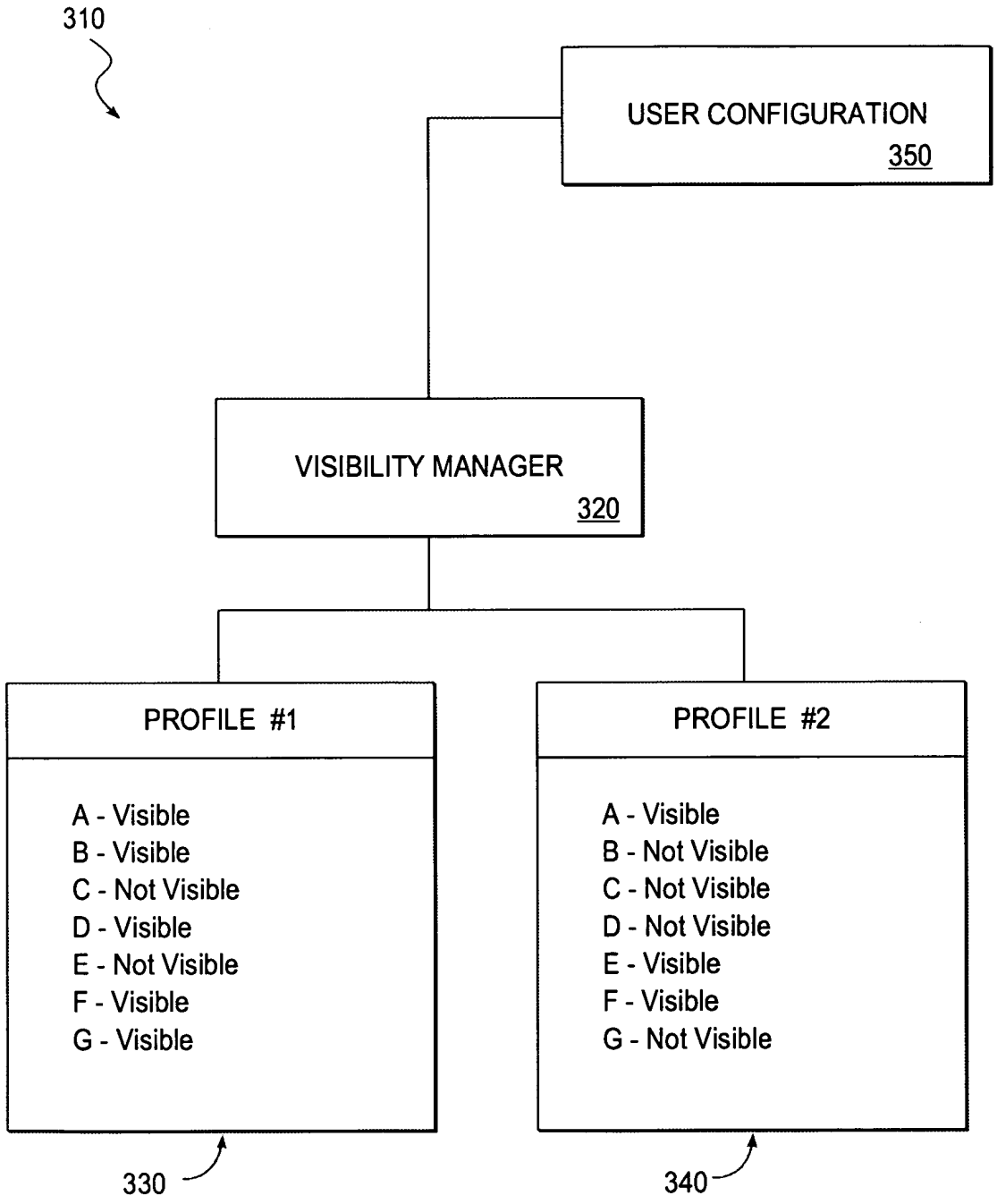
310
USER CONFIGURATION
350
VISIBILITY MANAGER
320
PROFILE #1
A - Visible
B - Visible
C - Not Visible
D - Visible
E - Not Visible
F - Visible
G - Visible
330
PROFILE #2
A - Visible
B - Not Visible
C - Not Visible
D - Not Visible
E - Visible
F - Visible
G - Not Visible
340

FIG. 3

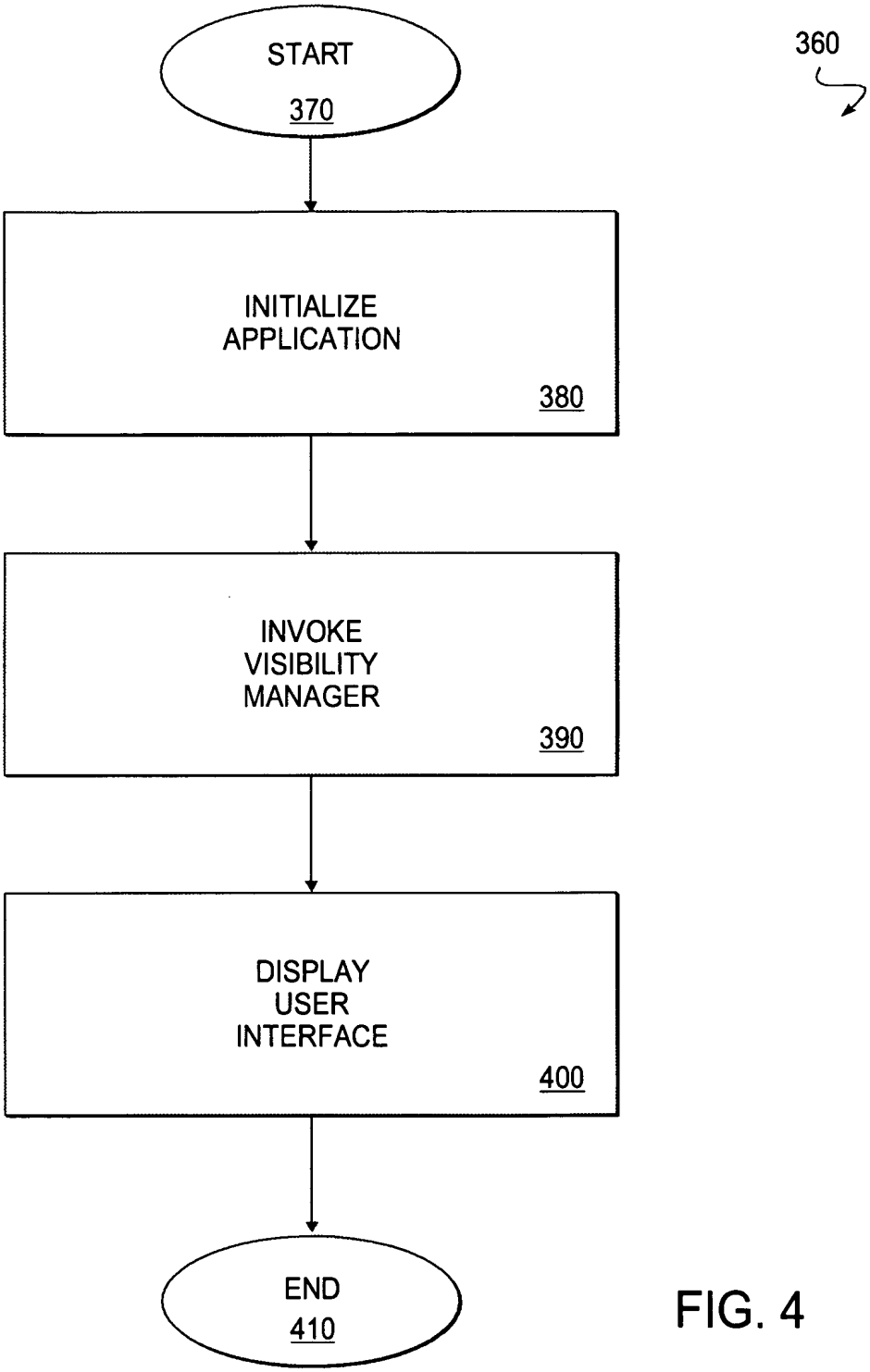
360
START
370
INITIALIZE APPLICATION
380
INVOKE VISIBILITY MANAGER
390
DISPLAY USER INTERFACE
400
END
410

FIG. 4

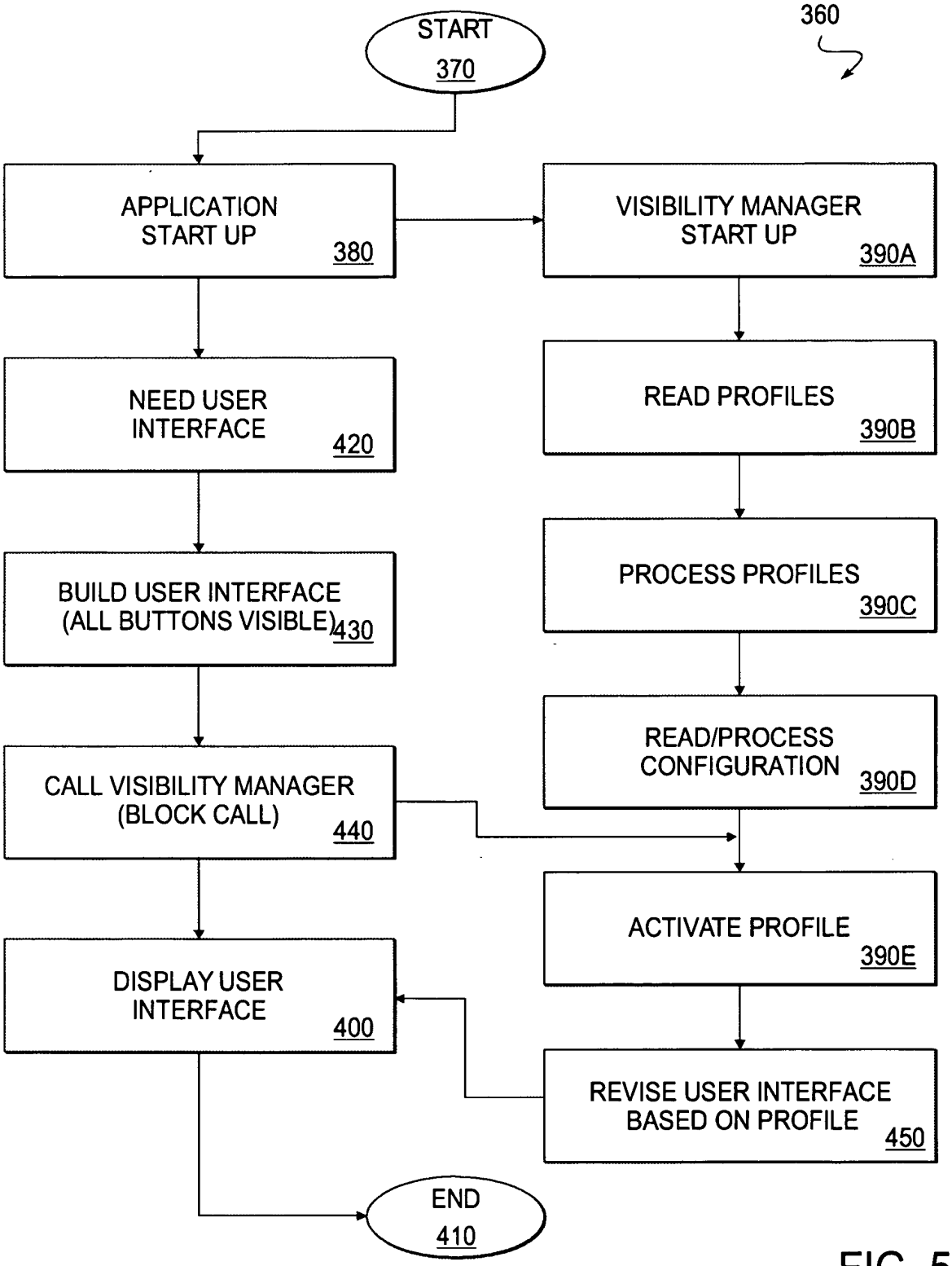
360
START
370
APPLICATION START UP
380
NEED USER INTERFACE
420
BUILD USER INTERFACE (ALL BUTTONS VISIBLE)
430
CALL VISIBILITY MANAGER (BLOCK CALL)
440
DISPLAY USER INTERFACE
400
END
410
VISIBILITY MANAGER START UP
390A
READ PROFILES
390B
PROCESS PROFILES
390C
READ/PROCESS CONFIGURATION
390D
ACTIVATE PROFILE
390E
REVISE USER INTERFACE BASED ON PROFILE
450

FIG. 5

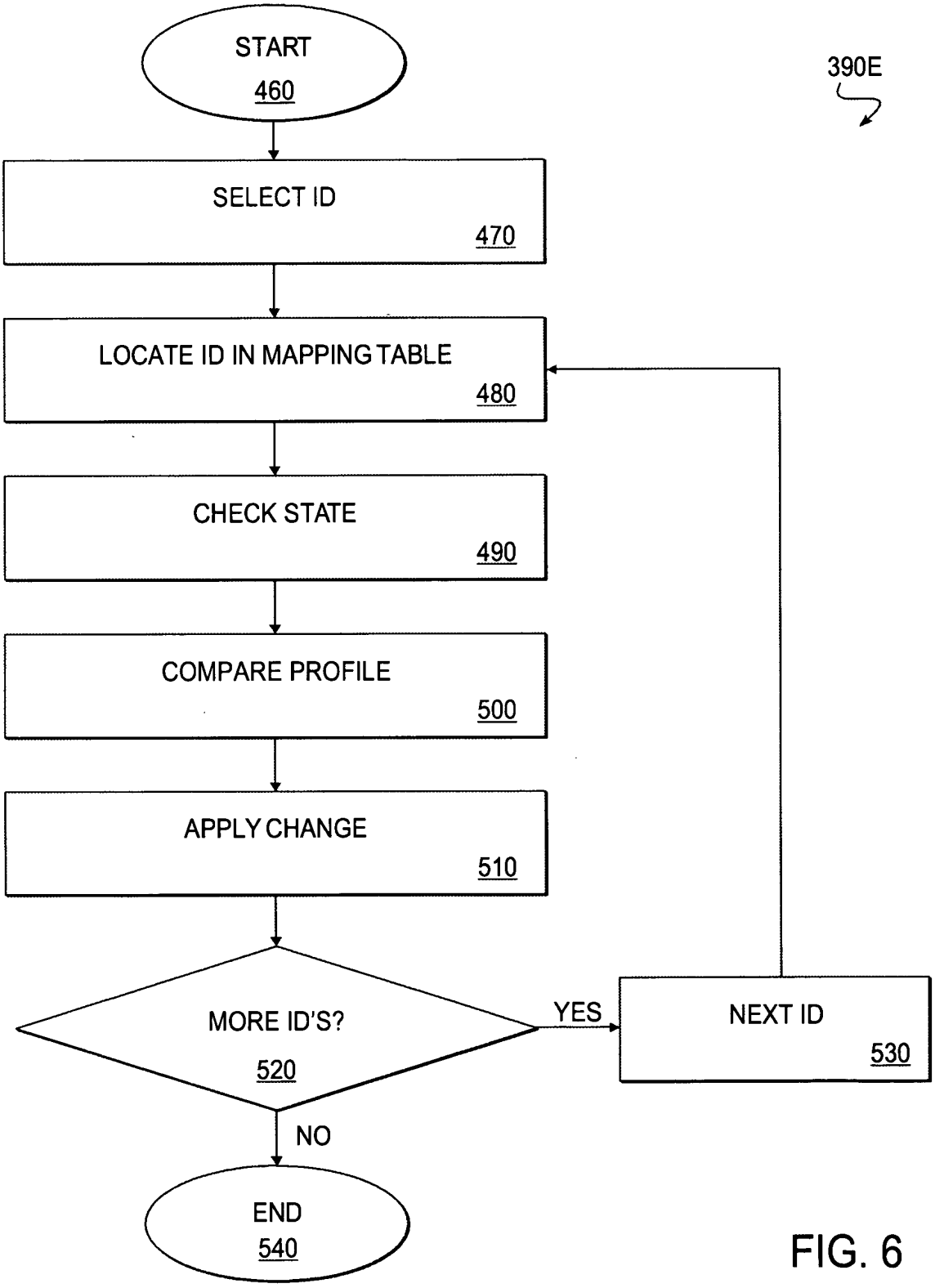
START
460
390E
SELECT ID
470
LOCATE ID IN MAPPING TABLE
480
CHECK STATE
490
COMPARE PROFILE
500
APPLY CHANGE
510
MORE ID'S?
520
YES
NEXT ID
530
NO
END
540

FIG. 6

550

MAPPING TABLE	
ID	REFERENCE TO JAVA OBJECT
aa cc	bb dd . . . .
560	570

FIG. 7

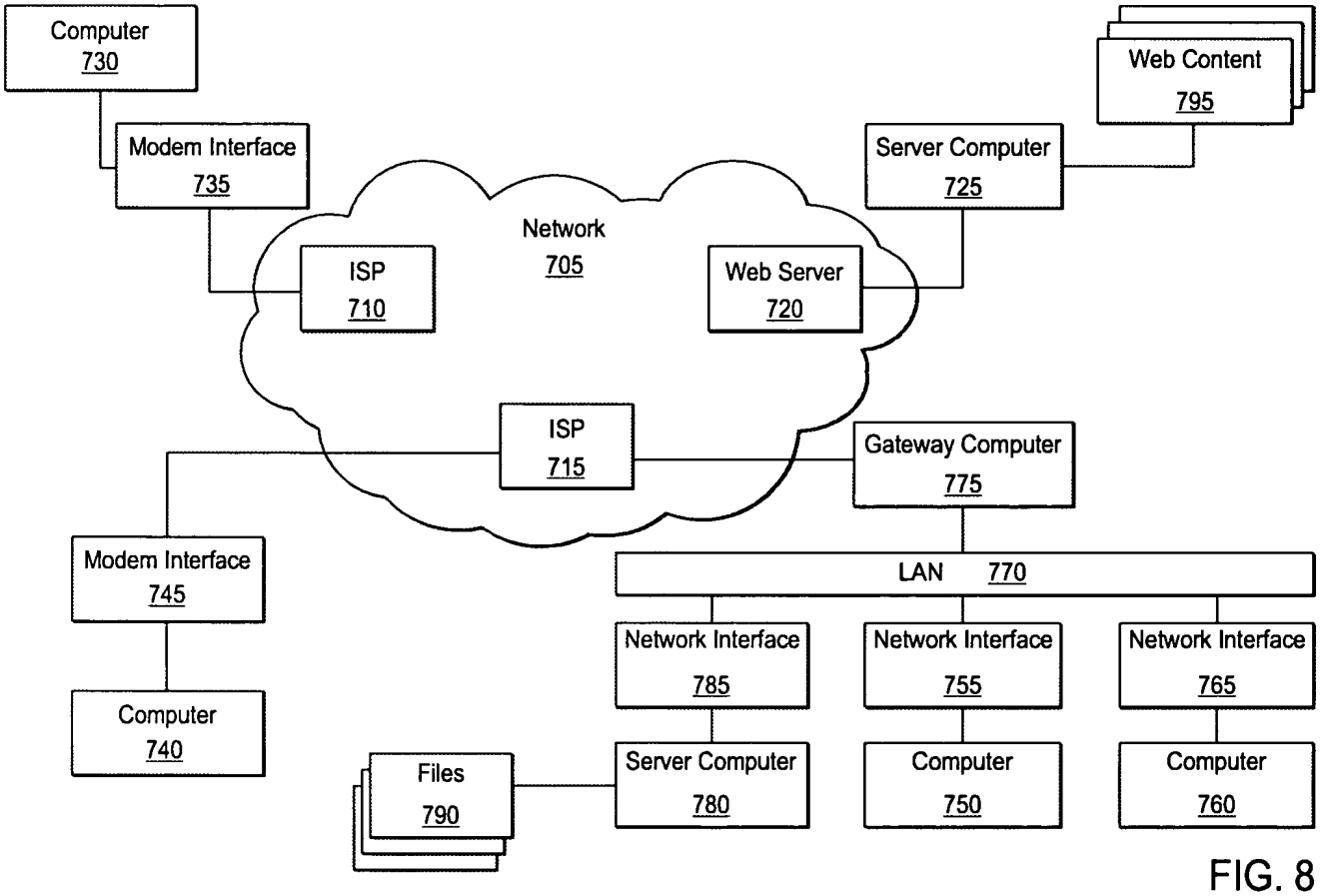
Computer
730
Modem Interface
735
Network
705
ISP
710
Web Server
720
Server Computer
725
Web Content
795
ISP
715
Gateway Computer
775
Modem Interface
745
LAN 770
Computer
740
Network Interface
785
Network Interface
755
Network Interface
765
Files
790
Server Computer
780
Computer
750
Computer
760

FIG. 8

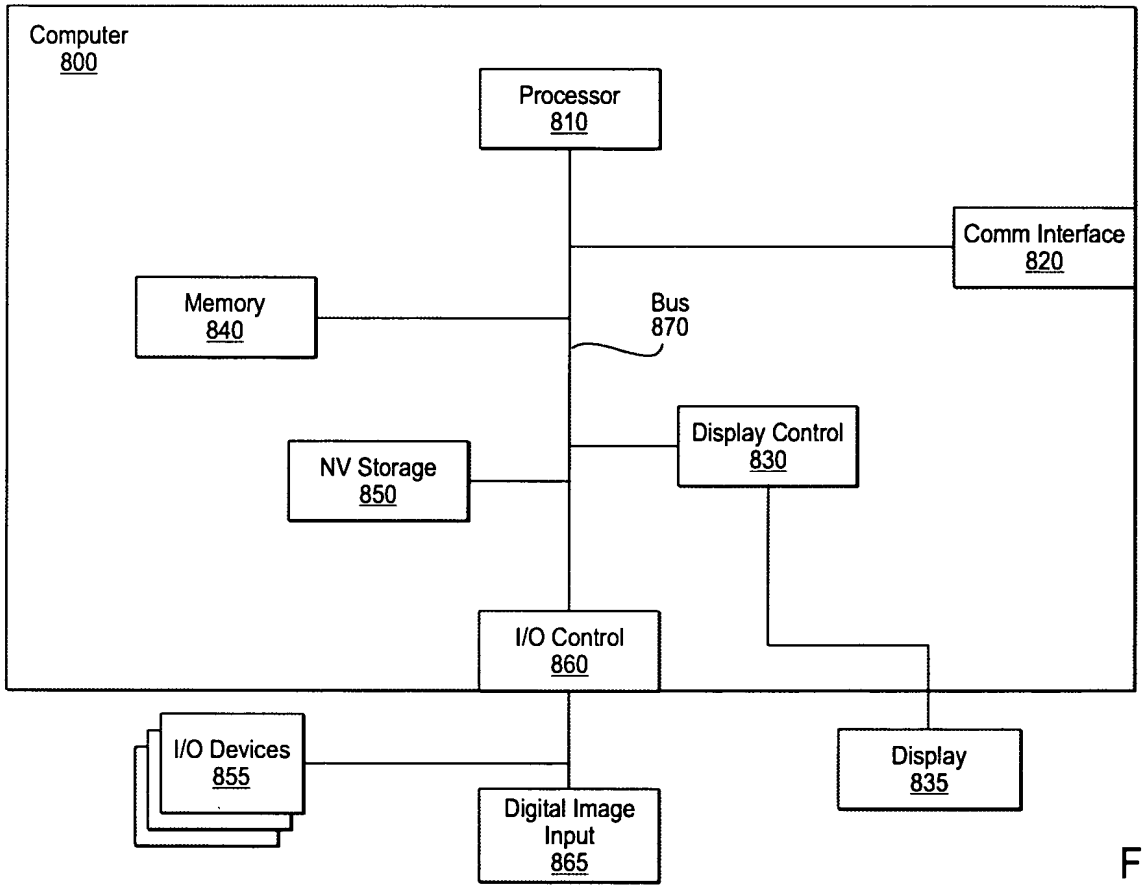
Computer
800
Processor
810
Comm Interface
820
Memory
840
Bus
870
Display Control
830
NV Storage
850
I/O Control
860
I/O Devices
855
Digital Image
Input
865
Display
835

FIG. 9

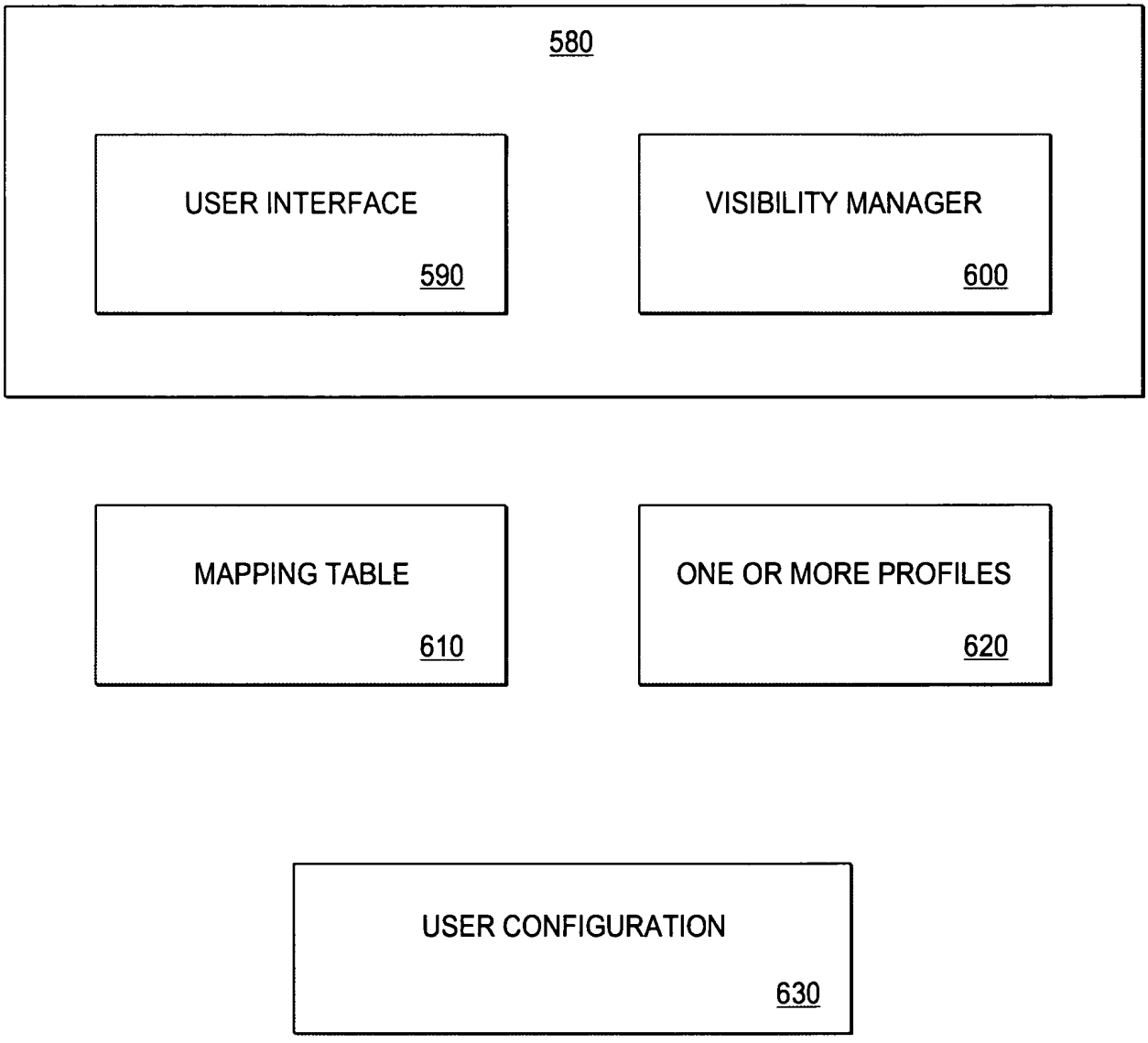
580
USER INTERFACE
590
VISIBILITY MANAGER
600
MAPPING TABLE
610
ONE OR MORE PROFILES
620
USER CONFIGURATION
630

FIG. 10